

Table ENG-3. - Building Site Development

Northumberland and Lancaster Counties, Virginia

The information in this table indicates the dominant soil condition, but does not eliminate the need for onsite investigation. The numbers in the value column range from 0.01 to 1.00. The larger the value, the greater the potential limitation. Limiting features in this report are limited to the top 5 limitations. Additional limitations may exist.

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
BeA:							
Beltsville	85	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Depth to saturated zone	1.00	Shrink-swell	0.50
		Depth to saturated zone	0.39	Depth to thin cemented pan	0.90	Depth to saturated zone	0.39
				Shrink-swell	0.50		
Kempsville	6	Not Rated		Not Rated		Not Rated	
Sassafras	6	Not Rated		Not Rated		Not Rated	
Caroline	3	Not Rated		Not Rated		Not Rated	
BeB:							
Beltsville	85	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Depth to saturated zone	1.00	Shrink-swell	0.50
		Depth to saturated zone	0.39	Depth to thin cemented pan	0.90	Depth to saturated zone	0.39
				Shrink-swell	0.50		
Kempsville	6	Not Rated		Not Rated		Not Rated	
Sassafras	6	Not Rated		Not Rated		Not Rated	
Caroline	3	Not Rated		Not Rated		Not Rated	
BeB2:							
Beltsville	85	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Depth to saturated zone	1.00	Shrink-swell	0.50
		Depth to saturated zone	0.39	Depth to thin cemented pan	0.90	Depth to saturated zone	0.39
				Shrink-swell	0.50		
Kempsville	6	Not Rated		Not Rated		Not Rated	
Sassafras	6	Not Rated		Not Rated		Not Rated	
Caroline	3	Not Rated		Not Rated		Not Rated	
Br:							
Bertie	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
Br:							
Fallsington	3	Not Rated		Not Rated		Not Rated	
Matapeake	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Dragston	2	Not Rated		Not Rated		Not Rated	
Mattapex	2	Not Rated		Not Rated		Not Rated	
Woodstown	2	Not Rated		Not Rated		Not Rated	
Bt:							
Bladen	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
Craven	5	Not Rated		Not Rated		Not Rated	
Elkton	5	Not Rated		Not Rated		Not Rated	
Lenoir	5	Not Rated		Not Rated		Not Rated	
CaC3:							
Caroline	85	Somewhat limited		Somewhat limited		Very limited	
		Shrink-swell	0.50	Depth to saturated zone	0.65	Slope	1.00
				Shrink-swell	0.50	Shrink-swell	0.50
Beltsville	6	Not Rated		Not Rated		Not Rated	
Kempsville	6	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
CaD3:							
Caroline	85	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.84	Slope	0.84	Slope	1.00
		Shrink-swell	0.50	Depth to saturated zone	0.65	Shrink-swell	0.50
				Shrink-swell	0.50		
Beltsville	6	Not Rated		Not Rated		Not Rated	
Kempsville	6	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	

CfB2:

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
CfB2:							
Caroline	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone Shrink-swell	0.65 0.50	Somewhat limited Shrink-swell	0.50
Beltsville	6	Not Rated		Not Rated		Not Rated	
Kempsville	6	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
CfC2:							
Caroline	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone Shrink-swell	0.65 0.50	Very limited Slope Shrink-swell	1.00 0.50
Beltsville	6	Not Rated		Not Rated		Not Rated	
Kempsville	6	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
Co:							
Coastal beach	100	Not Rated		Not Rated		Not Rated	
CrD3:							
Craven	85	Somewhat limited Shrink-swell Slope	0.50 0.37	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.37	Very limited Slope Shrink-swell	1.00 0.50
Bertie	4	Not Rated		Not Rated		Not Rated	
Elkton	4	Not Rated		Not Rated		Not Rated	
Mattapex	4	Not Rated		Not Rated		Not Rated	
Lenoir	3	Not Rated		Not Rated		Not Rated	
CsA:							
Craven	85	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Shrink-swell	0.50
Bertie	4	Not Rated		Not Rated		Not Rated	
Elkton	4	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
CsA:							
Mattapex	4	Not Rated		Not Rated		Not Rated	
Lenoir	3	Not Rated		Not Rated		Not Rated	
CsB2:							
Craven	85	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Shrink-swell	0.50
Bertie	4	Not Rated		Not Rated		Not Rated	
Elkton	4	Not Rated		Not Rated		Not Rated	
Mattapex	4	Not Rated		Not Rated		Not Rated	
Lenoir	3	Not Rated		Not Rated		Not Rated	
CsC2:							
Craven	85	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
Bertie	4	Not Rated		Not Rated		Not Rated	
Elkton	4	Not Rated		Not Rated		Not Rated	
Mattapex	4	Not Rated		Not Rated		Not Rated	
Lenoir	3	Not Rated		Not Rated		Not Rated	
Dr:							
Dragston	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Mattapex	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Woodstown	3	Not Rated		Not Rated		Not Rated	
Bertie	2	Not Rated		Not Rated		Not Rated	
Fallsington	2	Not Rated		Not Rated		Not Rated	
Sassafras	2	Not Rated		Not Rated		Not Rated	

Ek:

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
Ek:							
Elkton	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
Bertie	4	Not Rated		Not Rated		Not Rated	
Lenoir	4	Not Rated		Not Rated		Not Rated	
Othello	4	Not Rated		Not Rated		Not Rated	
Craven	3	Not Rated		Not Rated		Not Rated	
Fa:							
Fallsington	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Bertie	4	Not Rated		Not Rated		Not Rated	
Othello	4	Not Rated		Not Rated		Not Rated	
Woodstown	4	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
KeA:							
Kempsville	85	Not limited		Not limited		Not limited	
Sassafras	5	Not Rated		Not Rated		Not Rated	
Beltsville	4	Not Rated		Not Rated		Not Rated	
Woodstown	4	Not Rated		Not Rated		Not Rated	
Sloping sandy land	1	Not Rated		Not Rated		Not Rated	
Steep sandy land	1	Not Rated		Not Rated		Not Rated	
KeB:							
Kempsville	85	Not limited		Not limited		Not limited	
Sassafras	5	Not Rated		Not Rated		Not Rated	
Beltsville	4	Not Rated		Not Rated		Not Rated	
Woodstown	4	Not Rated		Not Rated		Not Rated	
Sloping sandy land	1	Not Rated		Not Rated		Not Rated	
Steep sandy land	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
KeB2:							
Kempsville	85	Not limited		Not limited		Not limited	
Sassafras	5	Not Rated		Not Rated		Not Rated	
Beltsville	4	Not Rated		Not Rated		Not Rated	
Woodstown	4	Not Rated		Not Rated		Not Rated	
Sloping sandy land	1	Not Rated		Not Rated		Not Rated	
Steep sandy land	1	Not Rated		Not Rated		Not Rated	
KeC2:							
Kempsville	85	Not limited		Not limited		Very limited Slope	1.00
Sassafras	5	Not Rated		Not Rated		Not Rated	
Beltsville	4	Not Rated		Not Rated		Not Rated	
Woodstown	4	Not Rated		Not Rated		Not Rated	
Sloping sandy land	1	Not Rated		Not Rated		Not Rated	
Steep sandy land	1	Not Rated		Not Rated		Not Rated	
KeC3:							
Kempsville	85	Not limited		Not limited		Very limited Slope	1.00
Sassafras	5	Not Rated		Not Rated		Not Rated	
Beltsville	4	Not Rated		Not Rated		Not Rated	
Woodstown	4	Not Rated		Not Rated		Not Rated	
Sloping sandy land	1	Not Rated		Not Rated		Not Rated	
Steep sandy land	1	Not Rated		Not Rated		Not Rated	
LaB:							
Lakeland	85	Not limited		Not limited		Not limited	
Sassafras	8	Not Rated		Not Rated		Not Rated	
Woodstown	7	Not Rated		Not Rated		Not Rated	

Le:

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
Le:							
Lenoir	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.81	Depth to saturated zone	1.00	Depth to saturated zone	0.81
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Bertie	4	Not Rated		Not Rated		Not Rated	
Elkton	4	Not Rated		Not Rated		Not Rated	
Mattapex	4	Not Rated		Not Rated		Not Rated	
Craven	3	Not Rated		Not Rated		Not Rated	
Lo:							
Local alluvial land	90	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Depth to saturated zone	0.96	Shrink-swell	0.50
				Shrink-swell	0.50		
Kempsville	5	Not Rated		Not Rated		Not Rated	
Sassafras	5	Not Rated		Not Rated		Not Rated	
MaA:							
Matapeake	85	Somewhat limited		Not limited		Somewhat limited	
		Shrink-swell	0.50			Shrink-swell	0.50
Bertie	3	Not Rated		Not Rated		Not Rated	
Mattapex	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
Woodstown	3	Not Rated		Not Rated		Not Rated	
MaB:							
Matapeake	85	Somewhat limited		Not limited		Somewhat limited	
		Shrink-swell	0.50			Shrink-swell	0.50
Bertie	3	Not Rated		Not Rated		Not Rated	
Mattapex	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
Woodstown	3	Not Rated		Not Rated		Not Rated	

MaB2:

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
MaB2:							
Matapeake	85	Somewhat limited Shrink-swell	0.50	Not limited		Somewhat limited Shrink-swell	0.50
Bertie	3	Not Rated		Not Rated		Not Rated	
Mattapex	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
Woodstown	3	Not Rated		Not Rated		Not Rated	
MaC2:							
Matapeake	85	Somewhat limited Shrink-swell	0.50	Not limited		Very limited Slope Shrink-swell	1.00 0.50
Bertie	3	Not Rated		Not Rated		Not Rated	
Mattapex	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
Woodstown	3	Not Rated		Not Rated		Not Rated	
MaD2:							
Matapeake	85	Somewhat limited Slope Shrink-swell	0.84 0.50	Somewhat limited Slope	0.84	Very limited Slope Shrink-swell	1.00 0.50
Bertie	3	Not Rated		Not Rated		Not Rated	
Mattapex	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	
Woodstown	3	Not Rated		Not Rated		Not Rated	
Mt:							
Mattapex	85	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.07	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.07
Bertie	3	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
Mt:							
Dragston	3	Not Rated		Not Rated		Not Rated	
Matapeake	3	Not Rated		Not Rated		Not Rated	
Othello	3	Not Rated		Not Rated		Not Rated	
Woodstown	3	Not Rated		Not Rated		Not Rated	
Mx:							
Mixed alluvial land	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Ot:							
Othello	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Elkton	3	Not Rated		Not Rated		Not Rated	
Fallsington	3	Not Rated		Not Rated		Not Rated	
Mattapex	3	Not Rated		Not Rated		Not Rated	
Bertie	2	Not Rated		Not Rated		Not Rated	
Dragston	2	Not Rated		Not Rated		Not Rated	
Matapeake	2	Not Rated		Not Rated		Not Rated	
RtB:							
Rumford	85	Not limited		Not limited		Somewhat limited Slope	
							0.50
Kempsville	8	Not Rated		Not Rated		Not Rated	
Sassafras	7	Not Rated		Not Rated		Not Rated	
RuB:							
Rumford	85	Not limited		Not limited		Not limited	
Kempsville	8	Not Rated		Not Rated		Not Rated	
Sassafras	7	Not Rated		Not Rated		Not Rated	
RuC2:							

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
RuC2:							
Rumford	85	Not limited		Not limited		Very limited Slope	1.00
Kempsville	8	Not Rated		Not Rated		Not Rated	
Sassafras	7	Not Rated		Not Rated		Not Rated	
SaA:							
Sassafras	85	Not limited		Somewhat limited Depth to saturated zone	0.15	Not limited	
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SaB:							
Sassafras	85	Not limited		Somewhat limited Depth to saturated zone	0.15	Not limited	
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SaB2:							
Sassafras	85	Not limited		Somewhat limited Depth to saturated zone	0.15	Not limited	
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SaC2:							
Sassafras	85	Not limited		Somewhat limited Depth to saturated zone	0.15	Very limited Slope	1.00
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SaC3:							
Sassafras	85	Not limited		Somewhat limited Depth to saturated zone	0.15	Very limited Slope	1.00
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
SaD2:							
Sassafras	85	Somewhat limited Slope	0.84	Somewhat limited Slope Depth to saturated zone	0.84 0.15	Very limited Slope	1.00
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SaD3:							
Sassafras	85	Somewhat limited Slope	0.84	Somewhat limited Slope Depth to saturated zone	0.84 0.15	Very limited Slope	1.00
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SfA:							
Sassafras	85	Not limited		Somewhat limited Depth to saturated zone	0.15	Not limited	
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SfB:							
Sassafras	85	Not limited		Somewhat limited Depth to saturated zone	0.15	Not limited	
Woodstown	8	Not Rated		Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated		Not Rated	
SsD:							
Sloping sandy land	90	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
StE:							
Steep sandy land	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Th:							

Table ENG-3. - Building Site Development - Continued

Northumberland and Lancaster Counties, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
Th:							
Tidal marsh, high	90	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
To:							
Tidal marsh, low	90	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
W:							
Water	100	Not Rated		Not Rated		Not Rated	
Wo:							
Woodstown	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.39	Depth to saturated zone	1.00	Depth to saturated zone	0.39
Bertie	3	Not Rated		Not Rated		Not Rated	
Dragston	3	Not Rated		Not Rated		Not Rated	
Fallsington	3	Not Rated		Not Rated		Not Rated	
Mattapex	3	Not Rated		Not Rated		Not Rated	
Sassafras	3	Not Rated		Not Rated		Not Rated	